

GEOGRAPHY.

EXAMINER—E. L. BYINGTON, M.A.

Time—Two Hours.

1. Explain *Perihelion*, *Apogee*, *Solstice*, *Zodiac*, *Ecliptic*.
2. Classify Tides. Draw diagrams to illustrate. State their causes.
3. Show clearly why the Arctic Circle is $23\frac{1}{2}^{\circ}$ (nearly) from the Pole.
4. If the earth's axes made an angle of 30° with a perpendicular to the plane of its orbit, what changes would follow?
5. What is the jurisdiction of the Dominion Government as distinguished from that of the Provincial Governments?
6. Where does Canada get her supplies of *Carpets*, *Sugars*, *Lace*, *Cork*, *Canned Salmon*, and *Wine*?
7. Name the Mediterranean seaports of Egypt, Spain, and France.
8. Name the cities on the *Rhine* and *Danube*.
9. Name the foreign possessions of France, Portugal, and Holland.
10. What are the forms of Government, Religion and Capital of each of the following countries: Egypt, Chili, Australia, Russia, England?
11. What and where are the following: Gallinas, Pamlico, Socotra, Elsinore, Calgary, Prague, Riga, Miquelon, Auckland, Yellow-Head?
12. To what nation do the following belong: New Guinea, Hayti, Society Islands, Celebes, Heligoland, Sumatra, Ushant, Puerto Rico, Jersey Islands, Philippine Islands.
13. Name the Lake expansions of the Shannon and Ottawa rivers.

COMPOSITION.

EXAMINER—STEWART MULVEY.

Time—Two Hours. Second and Third Classes.

1. State fully the uses of the following marks: —, ;, : , ? , ! , () — “ ”
2. What is meant by direct and indirect narrative, by grammatical and rhetorical order; by variety in the structure of sentences? Give examples.
3. Write a short essay on one of the following:—
“Modern Inventions.”
“Character is a bundle of habits.”
“Famous men.”

COMPOSITION.

EXAMINER—J. B. SOMERSET, Esq.

Time—Two Hours. First Class.

1. Define the following, giving where you can, illustrative quotations or statements: Epigram, antithesis, irony, redundancy, tautology, paraphrase.
2. Point out any defects in construction or style that you may observe in the following, and re-write them, when necessary, in corrected form:
 - (a.) “Particularly as to the affairs of this world, integrity hath many advantages over all the fine and artificial ways of dissimulation and deceit; it is much the plainer and easier, much the safer and more secure way of dealing with the world; it has less of trouble and difficulty, of entanglement and prosperity, of danger and hazard in it.”
 - (b.) “We came to our journey's end, at last, with no small difficulty, after much fatigue, through deep roads and bad weather.”
3. Write an article, suitable for a newspaper or magazine on any one of the following:—
“The Egyptian Question.”
“The Commercial Relations of the Old and New Worlds.”
“Immigration to the North-West.”

SPELLING.

EXAMINER—T. L. O. ARMSTRONG, M.A., LL.B.

1. Mention some words of unsettled orthography. How does American spelling differ from English?
2. Account for the double letters in each of the following words: poor, beef, class, differ, deferring, proceed.

3. Account for any peculiarity in the spelling of the following words: dying, dyeing, knives, ladies, tongue.

4. Correct, where necessary, the following words: Inflammation, harrass, embarras, visitting, parrallel, consciencious, collonade, personelle, dipthong, metonymy, autonmy, dilligence, billious, bicicle, baillif, delible, irretreivable, tennant, manouvre, grievous.
5. Add each of the terminations y, er, ed, ing, where possible, to each of the following words separately, making words in ordinary use. Try, lie, lay, stay, centre, tre, have, car, sky, glass, gravel.
6. Write to dictation the passage selected by the examiner.

BOTANY.

EXAMINER—REV. PROF. BRYCE, M.A., LL.B.

Time—One and a half hours—First Class.

1. Distinguish the stem from the root of the plant.
2. Describe a cotyledon, and show how the vegetable kingdom is divided on the basis of cotyledons.
3. What is meant by the “veining” of leaves, and explain the leading kinds of venation.
4. Explain the following terms applied to the shapes of leaves: Spathulate, sagittate, obovate, acicular and cuneate.
5. Describe the different parts of a stamen.
6. What are epiphytes and parasites, and give examples?
7. Give examples of plants that are sensitive to the touch.
8. Enumerate the varieties of underground stems.
9. How are fruits divided?

CHEMISTRY.

EXAMINER—REV. PROF. BRYCE, M. A., LL.B.

Time—One and a half hours—First Class.

1. Name the four elements spoken of by the ancients, and show to what extent they were elements.
2. Show the distinction between chemical and mechanical union.
3. Describe the physical qualities of the elements of common salt, and give the combining equivalents and specific gravities of these elements.
4. Give an account of the manufacture and uses of sulphuric acid.
5. What is an alkali? What is the color of the flame of potash and soda respectively?
6. Give the physical qualities of phosphorus, and describe and explain the phenomenon of burning phosphorus in a limited quantity of air.
7. What are the sources of supply, mode of manufacture, physical qualities, and uses of Iodine?
8. Name the leading ores of copper and its chief combinations. How would you detect copper in a mixture?

PHYSIOLOGY.

EXAMINER—REV. PROF. BRYCE, M.A., LL.B.

Time—One and a half hours—First Class.

1. Describe the bones of the human arm.
2. Give an account of blood corpuscles.
3. How is the blood propelled through the body and describe the mechanism of the organ which accomplishes this end?
4. Describe the lungs of a mammal, and show their use in the system.
5. What are the chief varieties of food stuffs?
6. Explain the use in the human organism of the gastric juice: of saliva; of the bile and pancreatic juice.
7. Explain shortly the process of digestion.
8. To what extent are animals warm, and how do you account for it?

SCHOOL ORGANIZATION AND MANAGEMENT.

EXAMINER—THE SUPERINTENDENT OF EDUCATION.

Time—Two hours.

1. How would you endeavor to secure the co-operation of parents in the management of your school?
2. Discuss the daily marking of recitations?
3. How would you encourage cleanliness, punctuality, and honesty in pupils?